:	Application No.	Applicant(s)		
Notice of Allowability	10/056,309	ABIDI ET AL.	ABIDI ET AL.	
	Examiner	Art Unit		
	Phuoc H. Nguyen	2143		
The MAILING DATE of this communication appeal of the communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate communicity. This application is sufficient to the communicity of the communication of the communicity of the communicity of the communication of the c	his application. If not inclu ication will be mailed in du	ded e course. <b>THIS</b>	
1. A This communication is responsive to October 3, 2005 and	Interviewed on December 20,	<u>2005</u> .		
2. X The allowed claim(s) is/are <u>1,3-13 and 15-33</u> .				
<ol> <li>Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> </ol>	e been received. e been received in Application	No	cation from the	
* Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the r	equirements	
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>			NOTICE OF	
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deposit of the dep</li></ol>	son's Patent Drawing Review ( . s Amendment / Comment or in .84(c)) should be written on the the header according to 37 CFR sit of BIOLOGICAL MATER	n the Office action of drawings in the front (not to 1.121(d). RIAL must be submitted.	·	
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date	6. <b>⊠</b> Interview Sun Paper No./M 08), 7. ⊠ Examiner's A	rmal Patent Application (P nmary (PTO-413), ail Date mendment/Comment tatement of Reasons for A		
of Biological Material	9.	JEFFREY PWU PRIMARY EXAMINE	'R	

Art Unit: 2143

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Daniel Ledesma (Reg. No. 57,181) on December 20, 2005.

Claims have been amended as follow:

Please cancelled claims 2, 14, and amended claims 1, 13, 19, and 25-33 as follows:

- 1. (currently amended) A method of managing network devices by specifying device components using a parsable string that conforms to a specified grammar, the method comprising the computer steps of:
  - creating and storing one or more entity location specifier values each comprising one or more location elements;

wherein the one or more entity location specifier values are specified as parsable strings; wherein the parsable strings conform to the specified grammar;

- wherein the specified grammar defines one or more delimited location specifiers, wherein each location specifier specifies a location type and a number;
- wherein the parsable strings are stored in Managed Information Base (MIB) objects and
  wherein the one or more entity location specifier values are specified as the
  parsable strings in the MIB objects;
- wherein each of the one or more location elements is selected from a superset of location elements that specify locations of entities within one or more network devices;

Art Unit: 2143

receiving <u>from an application</u> a retrieval request for a particular entity location specifier value; and

transmitting the particular entity location specifier value to the application.

13. (currently amended) A method of managing network devices by specifying device components using a parsable string that conforms to a specified grammar to provide platform independent management, the method comprising the computer-implemented steps of:

issuing a retrieval request for a particular entity location specifier value to an agent on a network device;

wherein the particular entity location specifier value is specified as the parsable string;

wherein the particular entity location specifier value comprises one or more location elements;

wherein the parsable string conforms to the specified grammar;

wherein the specified grammar defines one or more delimited location specifiers,

wherein each location specifier specifies a location type and a number;

wherein the parsable strings are stored in Managed Information Base (MIB)

objects and wherein the one or more entity location specifier values are

specified as the parsable strings in the MIB objects;

wherein each of the one or more location elements is selected from a superset of location elements that specify locations of all entities within one or more network devices;

receiving the particular entity location specifier value; and processing the particular entity location specifier value to determine a location of an entity.

19. (currently amended) A method as recited in Claim 13 wherein the specified grammar is compatible with CLI Command Line Interpreter.

Art Unit: 2143

25. (currently amended) A computer-readable medium carrying a data structure used in managing network devices by specifying device components using a parsable string that conforms to a specified grammar to provide platform independent management, comprising:

a location specifier value comprising one or more location elements;

wherein the grammar defines one or more delimited location specifiers, wherein each location specifier specifies a location type and a number;

wherein the parsable strings are stored in Managed Information Base (MIB)

objects and wherein the one or more entity location specifier values are
specified as the parsable strings in the MIB objects;

wherein the location specifier value is specified as the parsable string that conforms to the specified grammar;

wherein the location specifier value is in a MIB object;

wherein the one or more location elements are selected from a superset of location elements that specify locations of all entities within one or more network devices; and

wherein the parsable string can be retrieved from the MIB object with a retrieval request.

26. (currently amended) A computer-readable medium carrying one or more sequences of instructions for managing network devices by specifying device components using a parsable string that conforms to a specified grammar to provide platform independent management, which instructions, when executed by one or more processors, cause the one or more processors to carry out the steps of:

creating and storing one or more entity location specifier values each comprising one or more location elements;

wherein the one or more entity location specifier values are specified as parsable strings;

wherein the parsable strings conform to the specified grammar;

Art Unit: 2143

wherein the specified grammar defines one or more delimited location specifiers,
wherein each location specifier specifies a location type and a number;
wherein the parsable strings are stored in Managed Information Base (MIB)

Page 5

objects and wherein the one or more entity location specifier values are specified as the parsable strings in the MIB objects;

wherein each of the one or more location elements is selected from a superset of location elements that specify locations of all entities within one or more devices;

receiving <u>from an application</u> a retrieval request for a particular entity location specifier value; and

transmitting the particular entity location specifier value to the application.

27. (currently amended) A computer-readable medium carrying one or more sequences of instructions for managing network devices by specifying device components using a parsable string that conforms to a specified grammar to provide platform independent management, when executed by one or more processors, cause the one or more processors to carry out the steps of:

issuing a retrieval request for a particular entity location specifier value to an agent on a network device;

wherein the particular entity location specifier value is specified as the parsable string;

wherein the particular entity location specifier value comprises one or more location elements;

wherein the parsable string conforms to the specified grammar;

wherein the specified grammar defines one or more delimited location specifiers,
wherein each location specifier specifies a location type and a number;

wherein the parsable strings are stored in Managed Information Base (MIB)

objects and wherein the one or more entity location specifier values are

specified as the parsable strings in the MIB objects;

Art Unit: 2143

wherein each of the one or more location elements is selected from a superset of location elements that specify locations of all entities within one or more network devices;

Page 6

receiving the particular entity location specifier value; and processing the particular entity location specifier value to determine a location of an entity.

28. (currently amended) An apparatus for managing network devices by specifying device components using a parsable string that conforms to a specified grammar to provide platform independent management, comprising:

means for creating and storing one or more entity location specifier values each comprising one or more location elements;

wherein the one or more entity location specifier values are specified as parsable strings;

wherein the parsable strings conform to the specified grammar;

wherein the specified grammar defines one or more delimited location specifiers,
wherein each location specifier specifies a location type and a number;

wherein the parsable strings are stored in Managed Information Base (MIB)

objects and wherein the one or more entity location specifier values are
specified as the parsable strings in the MIB objects;

wherein each of the one or more location elements is selected from a superset of location elements that specify locations of all entities within one or more network devices;

means for receiving from an application a retrieval request for a particular entity location specifier value; and

means for transmitting the particular entity location specifier value to the application.

29. (currently amended) An apparatus for managing network devices by specifying device components using a parsable string that conforms to a specified grammar to provide platform independent management, comprising:

Art Unit: 2143

a network interface that is coupled to a data network for receiving one or more packet flows therefrom;

a processor;

one or more stored sequences of instructions which, when executed by the processor, cause the processor to carry out the steps of:

creating and storing one or more entity location specifier values each comprising one or more location elements;

wherein the one or more entity location specifier values are specified as parsable strings;

wherein the parsable strings conform to the specified grammar;

wherein the specified grammar defines one or more delimited location specifiers,
wherein each location specifier specifies a location type and a number;

wherein the parsable strings are stored in Managed Information Base (MIB)

objects and wherein the one or more entity location specifier values are

specified as the parsable strings in the MIB objects;

wherein each of the one or more location elements is selected from a superset of location elements that specify locations of all entities within one or more network devices;

receiving from an application a retrieval request for a particular entity location specifier value; and

transmitting the particular entity location specifier value to the application.

30. (currently amended) An apparatus for managing network devices by specifying device components using a parsable string that conforms to a specified grammar to provide platform independent management, comprising:

means for issuing a retrieval request for a particular entity location specifier value to an agent on a network device;

wherein the particular entity location specifier value is specified as the parsable string;

Art Unit: 2143

wherein the particular entity location specifier value comprises one or more location elements;

Page 8

wherein the parsable string conforms to the specified grammar;

wherein the specified grammar defines one or more delimited location specifiers, wherein each location specifier specifies a location type and a number;

wherein the parsable strings are stored in Managed Information Base (MIB)

objects and wherein the one or more entity location specifier values are specified as the parsable strings in the MIB objects;

wherein each of the one or more location elements is selected from a superset of location elements that specify locations of all entities within one or more network devices;

means for receiving the particular entity location specifier value; and means for processing the particular entity location specifier value to determine a location of an entity.

31. (currently amended) An apparatus for managing network devices by specifying device components using a parsable string that conforms to a specified grammar to provide platform independent management, comprising:

a network interface that is coupled to a data network for receiving one or more packet flows therefrom;

a processor;

one or more stored sequences of instructions which, when executed by the processor, cause the processor to carry out the steps of:

issuing a retrieval request for a particular entity location specifier value to an agent on a network device;

wherein the particular entity location specifier value is specified as the parsable string;

wherein the particular entity location specifier value comprises one or more location elements:

wherein the parsable string conforms to the specified grammar;

Art Unit: 2143

wherein the specified grammar defines one or more delimited location specifiers,

wherein each location specifier specifies a location type and a number;

wherein the parsable strings are stored in Managed Information Base (MIB)

objects and wherein the one or more entity location specifier values are

specified as the parsable strings in the MIB objects;

Page 9

wherein each of the one or more location elements is selected from a superset of location elements that specify locations of all entities within one or more network devices;

receiving the particular entity location specifier value; and processing the particular entity location specifier value to determine a location of an entity.

- 32. (currently amended) A method of managing network devices by specifying device components using a parsable string that conforms to a specified grammar to provide platform independent management, the method comprising the computer steps of: creating and storing one or more entity location specifier values each comprising one or more location elements;
  - wherein the one or more location elements are for logical entities and physical entities;
  - wherein the one or more entity location specifier values are specified as parsable strings in MIB Managed Information Base (MIB) objects;
  - wherein the parsable strings conform to ABNF Augmented Backus-Naur Form (ABNF);
  - wherein the specified grammar defines one or more delimited location specifiers,
    wherein each location specifier specifies a location type and a number;
  - wherein each of the one or more location elements is selected from a superset of location elements that specify locations of all entities within one or more network devices;

receiving from an application a single retrieval request for a particular entity location specifier value; and

Art Unit: 2143

transmitting the particular entity location specifier value to the application in a single response.

- 33. (currently amended) A method of managing network devices by specifying device components using a parsable string that conforms to a specified grammar to provide platform independent management, the method comprising the computer-implemented steps of:
  - issuing a single retrieval request for a particular entity location specifier value to an agent on a network device;
    - wherein the particular entity location specifier value is specified as the parsable string;
    - wherein the particular entity location specifier value comprises one or more location elements;
    - wherein the one or more location elements are for logical entities and physical entities;
    - wherein the parsable string conforms to ABNF <u>Augmented Backus-Naur Form</u> (ABNF);
    - wherein the specified grammar defines one or more delimited location specifiers,
      wherein each location specifier specifies a location type and a number;
    - wherein the parsable strings are stored in Managed Information Base (MIB)

      objects and wherein the one or more entity location specifier values are

      specified as the parsable strings in the MIB objects;
    - wherein each of the one or more location elements is selected from a superset of location elements that specify locations of all entities within one or more network devices;

receiving the particular entity location specifier value in a single response; and processing the particular entity location specifier value to determine a location of an entity.

## Examiner's Statement of Reasons for Allowance

2. This office action is in response to the application filed on October 3, 2005 and an interviewed on December 20, 2005.

- 3. Applicant amended claims 1, 13, 19, and 25-33, cancelled claims 2, and 14.
- 4. Claims 1, 3-13, and 15-33 are allowed
- 5. Claims include limitations that the prior art of record does not appear to teach or render obvious the claimed limitations as recited below.
- 6. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of records fails to disclose the specified grammar defines one or more delimited location specifiers, wherein each location specifier specifies a location type and a number; wherein the parsable strings are stored in Managed Information Base (MIB) objects and wherein the one or more entity location specifier values are specified as the parsable strings in the MIB objects.

The closest found prior art is Kekic et al. U.S. Patent 6,664,978. Kekic discloses a client-server network management system capable of represent the status and state of the component through the user graphical interface, and by using the network management agent and an element manager object to manage operation of at least one managed computer network element.

However, Kekic fails to teach the specified grammar defines one or more delimited location specifiers, wherein each location specifier specifies a location type and a number; wherein the parsable strings are stored in Managed Information Base (MIB) objects and wherein the one or more entity location specifier values are specified as the parsable strings in the MIB objects. and

Art Unit: 2143

in combination with other limitations as set forth in the independent claims. Claims 3-12, and

Page 12

15-24 are allowed due to dependent claims.

7. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Phuoc H. Nguyen whose telephone number is 571-272-3919.

The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wiley can be reached on 571-272-3923. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phuoc H Nguyen

Examiner

Art Unit 2143

December 23, 2005

PRIMARY EXAMINER

Art Unit: 2143

Page 13